#21

SEQUENCE LISTING

<110> Kumar Verma, Sunil
Singh, Lalji

<120> UNIVERSAL PRIMERS FOR WILDLIFE IDENTIFICATION

<130> U 013365-9

<140> 09/821,782
<141> 2001-03-29

<160> 255

<170> PatentIn version 3.1

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aacacccctc cccatatcaa gcgcgaat 328

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<223> DNA sequence generated from the known tiger (Panthera tigris tigris) animal number 5 using primers mcb398 and mcb869

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acaggatcta acaacccctc aggaatagta tctgactcag acaaaatccc gttccaccca 180

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<212> DNA
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<220>
<221> misc_feature
<223> DNA sequence generated from the known tiger (Panthera tigris tigris) animal number 6 using primers mcb398 and mcb869

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tactacacaa tcaaagacat cctgggcctt ctagtactaa tcctaacact catactactc 240

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aacacccctc cccatatcaa gcgcgaat 328

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<220>
<221> misc_feature
<223> DNA sequence generated from the known white tiger (Panthera tigris tigris) animal number 1 using primers mcb398 and mcb869

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gtcctattct caccagacct attaggggac cccgataact acatccccgc caaccctcta 300

aacacccctc cccatatcaa gcgcgaat 328

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<212> DNA
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<221> misc_feature
<223> DNA sequence generated from the known white tiger (Panthera tigris tigris) animal number 2 using primers mcb398 and mcb869

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acaggatcta acaacccctc aggaatagta tctgactcag acaaaatccc gttccaccca 180

tactacacaa tcaaagacat cctgggcctt ctagtactaa tcctaacact catactactc 240

gtcctattct caccagacct attaggggac cccgataact acatccccgc caaccctcta 300

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<210> 14
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<212> DNA
<213> bhz23wt

<220>
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<223> DNA sequence generated from the known white tiger (Panthera tigri
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acaggatcta acaacccctc aggaatagta tctgactcag acaaaatccc gttccaccca 180

tactacacaa tcaaagacat cctgggcctt ctagtactaa tcctaacact catactactc 240

gtcctattct caccagacct attaggggac cccgataact acatccccgc caaccctcta 300

aacacccctc cccatatcaa gcgcgaat 328

<210> 15
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<212> DNA
<213> bhz28wt

<220>
<221> misc_feature
<223> DNA sequence generated from the known white tiger (Panthera tigri
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acaggatcta acaacccctc aggaatagta tctgactcag acaaaatccc gttccaccca 180

tactacacaa tcaaagacat cctgggcctt ctagtactaa tcctaacact catactactc 240

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<210> 16
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<212> DNA
<213> gz1L

<220>
<221> misc_feature
<223> DNA sequence generatd from the known leopared (Panthera pardus) a
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<220>
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<223> DNA sequence generated from the known leopared (Panthera pardus)
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acaggatcta acaacccctc aggaatagta tccgactcag acaaaattcc attccaccca 180

tactacacaa tcaaagatat cctgggcctt ctagtactaa tcctagcact catactactc 240

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aataccctc cccatatcaa gcctgaat 328

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<212> DNA
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<223> DNA sequence generatd from the known leopared (Panthera pardus) a nimal number 2 using primers mcb398 and mcb869

<220>
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<223> DNA sequence generated from the known leopared (Panthera pardus) animal number 2 using primers mcb398 and mcb869

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acaggatcta acaacccctc aggaatagta tctgactcag acaaaattcc attccaccca 180

tactacacaa tcaaagacat cctgggcctt ctagtactaa tcttagcact catactactc 240

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aataccctc cccatatcaa gcctgaat 328

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<212> DNA
<213> gz3L

<220>
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<223> DNA sequence generatd from the known leopared (Panthera pardus) a

nimal number 3 using primers mcb398 and mcb869

<220>
<221> misc_feature
<223> DNA sequence generated from the known leopared (Panthera pardus) animal number 3 using primers mcb398 and mcb869

<400> 18
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ttcatccttc catttatcat ctcagctcta gcagcagtcc acctcctatt ccttcacgag 120

acaggatcta acaacccctc aggaatagta tctgactcag acaaaattcc attccaccca 180

tactacacaa tcaaagacat cctgggcctt ctagtactaa tcttagcact catactactc 240

gtcctattct caccagacct gttgggagac cccgataact acatccccgc caaccctcta 300

aataccctc cccatatcaa gcctgaat 328

<210> 19
<211> 327
<212> DNA
<213> gz21CL

<220>
<221> misc_feature
<223> DNA sequence generated from the known clouded leopard (Neofelis nebulosa) animal number 1 using primers mcb398 and mcb869

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aaggatccaa taacccctca ggaatggtat ccgattcaga caaaatcccg ttccacccgt 180

actatacaat caaagatatc ctaggcctcc tagttctaat tctagcgctc acactacttg 240

ttctattctc cccagaccta ctaggagacc ctgacaatta cactcccgcc aaccctctaa 300

ataccctcc ccatatcaag cctgaat 327

<210> 20
<211> 327
<212> DNA
<213> gz22CL

<220>
<221> misc_feature
<223> DNA sequence generated from the known clouded leopard (Neofelis nebulosa) animal number 2 using primers mcb398 and mcb869

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aaggatccaa taacccctca ggaatggtat ccgattcaga caaaatcccg ttccacccgt 180

actatacaat caaagatatc ctaggcctcc tagttctaat tctagcgctc acactacttg 240

ttctattctc cccagaccta ctaggagacc ctgacaatta cactccccgcc aaccctctaa 300

ataccctcc ccatatcaag cctgaat 327

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<211> 328
<212> DNA
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<222> (1)..(328)
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acaggatcta acaacccctc aggaatagta tctgactcag acaaaatccc gttccaccca 180

tactacacaa tcaaagacat cctgggcctt ctagtactaa tcctaacact catactactc 240

gtcctattct caccagacct attaggggac gccgataact acatccccgc caaccctcta 300

aacacccctc cccatatcaa gcccgaat 328

<210> 22
<211> 328
<212> DNA
<213> darz15SL

<220>
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a) animal number 2 using primers mcb398 and mcb869

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acaggatcta acaacccctc aggaatagta tctgactcag acaaaatccc gttccaccca 180

tactacacaa tcaaagacat cctgggcctt ctagtactaa tcctaacact catactactc 240

gtcctattct caccagacct attaggggac gccgataact acatccccgc caaccctcta 300

aacacccctc cccatatcaa gcccgaat 328

<210> 23
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<212> DNA
<213> darz16SL

<220>
<221> misc_feature
<223> DNA sequence generated from the known snow leopard (Panthera unica) animal number 3 using primers mcb398 and mcb869

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acaggatcta acaacccctc aggaatagta tctgactcag acaaaatccc gttccaccca 180

tactacacaa tcaaagacat cctgggcctt ctagtactaa tcctaacact catactactc 240

gtcctattct caccagacct attaggggac gccgataact acatccccgc caaccctcta 300

aacacccctc cccatatcaa gcccgaat 328

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<220>
<221> misc_feature
<222> (1)..(328)
<223> DNA sequence generated from the known asiatic lion (Panthera leo persica) animal number 1using primers mcb398 and mcb869

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agcacccctc cccatatcaa acctgaat 328

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<212> DNA
<213> sbz38AL

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<223> DNA sequence generated from the known asiatic lion (Panthera leo

persica) animal number 2 using primers mcb398 and mcb869

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gtcctattct caccagacct attaggagat cccgacaact ataccccccgc caatcctcta 300

agcacccctc cccatatcaa acctgaat 328

<210> 26
<211> 328
<212> DNA
<213> sbz39AL

<220>
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<223> DNA sequence generated from the known asiatic lion (Panthera leo persica) animal number 3 using primers mcb398 and mcb869

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acaggatcta ataacccctc aggaatggta tctgactcag ataaaattcc attccatcca 180

tactatacaa tcaaagatat cctaggcctt ctagtactaa tcttaacact catactactc 240

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agcacccctc cccatatcaa acctgaat 328

<210> 27
<211> 328
<212> DNA
<213> humsk

<220>
<221> misc_feature
<223> DNA sequence gerated from the known human (Homo sapiens sapiens) using primers mcb398 and mcb869

<220>
<221> misc_feature
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<220>
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<223> DNA sequence generated from the known human (Homo sapiens sapiens ) using primers mcb398 and mcb869

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ttcatcttgc ccttcattat tgcagcccta gcagcactcc acctcctatt cttgcacgaa 120

acgggatcaa acaacccccc aggaatcacc tcccattccg ataaaatcat cttccaccct 180

tactacacaa tcaaagacgc cctcggctta cttctcttcc ttctctcctt aatgacatta 240

acactattct caccagacct cctaggcgac ccagacaatt ataccctagc caacccctta 300

aacacccctc cccacatcaa gcccgaat 328

<210> 28
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<220>
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<223> DNA sequence gerated from the known chimpanzee (pan troglodytes) animal using primers mcb398 and mcb869

<220>
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<223> DNA sequence generated from the known chimpanzee (pan troglodytes ) animal using primers mcb398 and mcb869

<220>
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acaggatcaa ataacccccc gggaatcacc tcccactccg acaaaattac cttccacccc 180

tactacacaa tcaaagatat ccttggctta ttccttttcc tccttatcct aatgacatta 240

acactattct caccagacct cctgggcgat ccagacaact ataccctagc taacccccta 300

aacaccccac cccacattaa acccgaat 328

<210> 29
<211> 472
<212> DNA
<213> Cervus nippon centralis

<400> 29

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cggacgcaga caaaatcccc ttccatcctt actacaccat taaagatatc ttaggcatct 300

tacttctagt actcttccta atattactag tattattcgc accagacctg cttggagatc 360

cagacaacta taccccagca aatccactca acacaccccc tcacatcaaa cctgaatgat 420

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<210> 30
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ctatagtaca cttactcttc cttcacgaga caggatccaa caacccaaca ggaatcccat 240

cggacgcaga caaaatcccc ttccatcctt actacaccat taaagatatc ttaggcatct 300

tacttctagt actcttccta atattactag tattattcgc accagacctg cttggagatc 360

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<213> Cervus nippon keramae

<400> 31
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cagacaacta caccccagca aatccgctca acacaccccc tcacatcaaa cctgaatgat 420

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<213> Cervus elaphus scoticus

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<213> Cervus dama

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<213> Moschus leucogaster

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<213> Moschus berezovskii

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cggacaacta tactccagca aacccattaa atacacctcc acatattaaa cccgaatggt 420

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<213> Kobus megaceros

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tcctattaat cctaatacta atactcctag tactatttgc ccccgaccta cttggagacc 360

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<211> 472
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<213> Redunca arundinum

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tactgctaat cctagtccta atgctcttag tattattcac ccctgaccta ctcggagatc 360

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<212> DNA
<213> Redunca fulvorufula

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cagacaacta cacccccgca aaccctctta acacgcctcc ccatatcaaa cccgaatgat 420

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<211> 472
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<213> Pelea capreolus

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<211> 472
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<213> Antilope cervicapra

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<211> 472
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<213> Saiga tatarica

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<213> Gazella dama

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<210> 51
<211> 472
<212> DNA
<213> Ourebia ourebi

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<213> Gazela gazella

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<213> Raphicerus melanotis

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<210> 54
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<213> Madoqua kirkii

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<212> DNA
<213> Tragulus napu

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<210> 58
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<212> DNA
<213> Balaenoptera acutorostrata

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<213> Cephalorhynchus eutropia

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<210> 70
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<212> DNA
<213> Cephalorhynchus heavisidii

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<213> cephalorhynchus hectori

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<210> 73
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<213> Lagenorhynchus cruciger

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<213> Lagenorhynchus obscurus

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<213> Lissodelphis peronii

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<213> Globicephala macrorhynchus

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<213> Lagenorhynchus acutus

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<213> Orcaella brevirostris

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<213> Hyperoodon ampullatus

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<213> Mesoplodon peruvianus

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<213> Hippopotamus amphibius

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<213> Dicerorhinus sumatrensis

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<213> Equus asinus

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<213> Babyrousa babyrussa

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<213> lama guanicoe

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<213> Camelus bactrianus

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<213> Arctocephalus forsteri

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<213> Hydrurga leptonyx

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<213> Leptonychotes weddelli

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<213> Mirounga leonina

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<213> Erignathus barbatus

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<213> Helarctos malayanus

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<213> Selenarctos thibetanus

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<213> Ailurus fulgens

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<212> DNA
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<213> Canis familiaris

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<213> Glaucomys sabrinus

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<213> Glaucomys volans

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<213> Dugong dugong

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ccgactcaga caaaatccca ttccacccat attattcagt caaagacctc ctaggcctat 300

tcctcctcat tctagtctta ctcctactaa ccctgttctc cccggacata ctgggagacc 360

cagacaacta cacaccagcc aacccactaa acacccctcc ccacattaaa ccagaatgat 420

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<210> 168
<211> 472
<212> DNA
<213> Elephas maximus

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cagactcaga caaaattccc tttcacccgt actatactat caaagacttc ctagggctac 300

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<213> Afropavo congensis

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<213> Pavo muticus

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<211> 472
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<213> Tragopan blythii

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<213> Tragopan satyra

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<211> 472
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<213> Tragopan caboti

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cagaaaactt caccccagca aacccattgg taactcctcc ccatatcaag ccagaatggt 420

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<211> 472
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<213> Tragopan temminckii

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ctaactctga caaaatccca ttccacccgt actactccct caaagatatc ctaggcctaa 300

cactcatact cactcccctc ctcacactag ccttattttc accaaaccta ctaggtgatc 360

cagaaaactt caccccagca aacccactag taactcctcc ccatatcaaa ccagaatgat 420

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<210> 175
<211> 472
<212> DNA
<213> Argusianus argus

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cactcatact cgctccattc cttacactaa ccctattcta cccaaaccta ctaggtgacc 360

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<210> 176
<211> 472
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<213> Catreus wallichi

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cacttatatt caccccattc ctaacactag ccctattctc accaaatctt ctgggcgacc 360

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<210> 177
<211> 472
<212> DNA
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cacttatact caccccattc ctaacactag ccctattctc acctaacctt ctgggcgacc 360

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<210> 178
<211> 472
<212> DNA
<213> Syrmaticus reevesi

<400> 178
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cacttatact caccccattc ctcacactag ccctattctc acctaacctg ctaggcgacc 360

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<210> 179
<211> 472
<212> DNA
<213> Bambusicola thoracica

<400> 179
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cccttatatt catcccattc ctgacactag ccctattctc ccctaacctc ctaggagacc 360

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<210> 180
<211> 472
<212> DNA
<213> Francolinus francolinus

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cccttatatt catccctctc cttacactag ccctattctc ccccaacctc ctaggcgacc 360

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<210> 181
<211> 472
<212> DNA
<213> Ithaginis cruentus

<400> 181
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cacttatact catccccttt cttacactag tcctattttc ccccaacctc ctaggagatc 360

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<210> 182
<211> 472
<212> DNA
<213> Anthropoides paradisea

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ccctaatcca cctcaccttc cttcacgagt ccggctcaaa caacccccta ggcattgtat 240

caaactgcga taaaatccca ttccacccct atttttcctt aaaagatatc ctaggattca 300

tactcatact actcccactc ataaccctag ctctattctc accaaactta ctaggagacc 360

cagaaaactt caccccagca aacccccctag tcacacctcc ccatatcaaa ccagaatgat 420

atttcttatt tgcgtatgcc atcctacgtt caattccaaa caaactagga gg 472

<210> 183
<211> 472
<212> DNA
<213> Anthropoides virgo

<400> 183
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caaactgcga taaaatccca ttccacccct atttttcctt aaaagatatc ctaggattca 300

tactcatact actcccactc ataaccctag ctctattctc accaaactta ctaggagacc 360

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<210> 184
<211> 472
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<213> Grus antigone antigone

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cactcatact acttccactc ataaccctag ccctattctc accaaaccta ctaggagacc 360

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<211> 472
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<213> Grus antigone gillae

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cactcatact acttccactc ataaccctag ccctattctc accaaaccta ctaggagacc 360

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<210> 186
<211> 472
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<213> Grus antigone sharpei

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<210> 187
<211> 472
<212> DNA
<213> Grus leucogeranus

<400> 187
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caaactgcga taaaatccca ttccaccccт actttтcctt aaaagatatc ctagggttca 300

tactcatact acttccactc ataaccttag ccctattctc accaaactta ctaggagacc 360

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<210> 188
<211> 472
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<213> Grus canadensis pratensis

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tactcatact acttccactc ataaccctag ctctattttc accaaactta ctaggagacc 360

cagaaaactt caccccagca gacccccctag tcacacctcc ccatatcaaa ccagaatgat 420

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<210> 189
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<212> DNA
<213> Grus canadensis rowani

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tactcatact acttccactc ataaccctag ctctattttc accaaactta ctaggagacc 360

cagaaaactt caccccagca aacccccctag tcacacctcc ccatatcaaa ccagaatgat 420

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<210> 190
<211> 472
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<213> Grus canadensis tabida

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cagaaaactt caccccagca aacccccctag tcacacctcc ccatatcaaa ccagaatgat 420

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<213> Grus canadensis canadensis

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cagaaaactt caccccagca aacccccctag tcacacctcc ccatatcaaa ccagaatgat 420

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<210> 192
<211> 472
<212> DNA
<213> Grus americana

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caaactgcga taaaatccca ttccaccccct atttttcctt aaaagacatc ctaggattca 300

cactcatatt acttccactc ataaccctag ctctattttc accaaactta ctaggagacc 360

cagaaaactt caccccagca aacccccctag tgacacctcc ccatattaag ccggaatgat 420

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<210> 193
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<213> Grus grus

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<213> Grus japonensis

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<213> Rhea americana

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<213> Falco femoralis

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<213> Falco verpertinus

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<213> Falco peregrinus

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<213> Aythya americana

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<212> DNA
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<213> Antelope cervicapra

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<213> Oryx damah

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<213> Sigmoceros lichtensteinii

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<213> Beatragus hunteri

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ccatagtcca cctcttattt ctccacgaaa caggatctaa caaccccaca ggaatctcgt 240

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cagacaacta cacccccgca aacccactta atacaccccc tcacatcaaa cccgaatgat 420

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<213> Damaliscus lunatus

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<212> DNA
<213> Connochaetes taurinus

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<213> Bison bonasus

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cagataacta cacccagca aatccactta acacacctcc ccacatcaaa cccgaatgat 420

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<213> Bos grunniens

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cagacaacta caccccagca aatccactca acacacctcc ccacatcaaa cccgaatgat 420

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<211> 472
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<213> Bos tragocamelus

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<213> Bubalus bubalis

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cagacaacta caccccagca aacccactca acacacctcc ccacatcaag cctgaatggt 420

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cagacaacta caccccagca aacccactca acacacctcc ccatatcaaa cctgaatggt 420

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<213> Tragelaphus angasii

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<210> 233
<211> 472
<212> DNA
<213> Nemorhaedus caudatus

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tactactaat cctcaccctt attttactgg tattattcac acctgactta cttggagatc 360

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<213> Pseudois nayaur

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<213> Ammotragus lervia

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<211> 472
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<213> Capra falconeri

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<213> Hemitragus jemlahicus

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cagatacaga caaaatccca tttcaccctt actacaccat taaagatatt ttaggcgcca 300

tactactaat tcttgtccta atattactag tactatttat acccgaccta cttggagacc 360

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<213> Rupicapra pyrenaica

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<211> 472
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<213> Pantholops hodgsoni

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<213> Budorcas taxicolor taxicolor

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<211> 472
<212> DNA
<213> Ovis ammon

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<210> 246
<211> 472
<212> DNA
<213> Ovibos moschatus

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<213> Oreamnos americanus

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